

3819

G. & P. SURVEY

FEB 8 1921

Form 504

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

State: CALIFORNIA.

11-5813

DESCRIPTIVE REPORT.

Topographic Sheet No. 3819 2

LOCALITY:

Long Beach and vicinity.

Los Angeles County.

LOS ANGELES HARBOR (San Pedro Bay).

1920.

CHIEF OF PARTY:

F. G. ENGLE.

DESCRIPTIVE REPORT.

To accompany Topographic Sheet Number 2.

Long Beach and Vicinity, Los Angeles County,
California.

Resurvey under instructions dated May 12, 1920.

The topography, in the localities covered by this sheet, was done by one officer and three men from the dock.

The survey was continued from Topographic Sheet #1, repeating a few features to show an overlap. No direct traverses were run. The topographer would check up the location of his planetable at each setup, using three points when they were available. Occasionally two points were used, and a few times, one point in addition to the orientation line and rod reading, was used. The closeness with which triangulation stations checked shows that there was little or no error in connection with the surveying.

The working grounds were reached most of the time by electric cars from San Pedro. As these cars ran on a forty minute schedule, this means of transportation was not entirely satisfactory. A Ford automobile, leased by the month, would probably cost very little more, and would have been much better suited for work in a locality like this. It would also aid materially in checking up maps obtained from the city.

A number of planetable positions were determined. These are given in an accompanying list. The position of two points, "Cor" and "End", used by the launch, and shown in pencil circles on the sheet, are also given in the list.

Important changes to which attention should be called, are as follows:

A flood control diversion channel is being constructed at the west extremity of Long Beach. Except for the outlet to the ocean, this has been excavated as far north as Anaheim Street. Beyond that, levees are being constructed on both sides. No excavations are to be made above Anaheim Street. This channel is to care for floods during the rainy season, which that locality has heretofore been subjected to. It is to extend northward from the beach to Dominguez. At Dominguez it branches out, forming a mouth, in order to drain the highlands on both sides. All streams that can possibly drain into the channel are to be diverted to it. The channel is approximately 720' wide. There is to be a levee on each side, about 35' wide at the top. On the east levee a highway is to be built. The Pacific Electric Railway plan laying tracks on the west levee. The channel is designed to care for 80,000 second feet of water. Storm water will probably scour the channel so that this amount will be exceeded. The two greatest floods ever recorded in this vicinity were 40,000 and 60,000 second feet.

The Pacific Electric Railway line to Long Beach, which crossed this channel on the Third Street bridge at the time the survey was made, has

(To accompany Topographic Sheet Number 2.)

since relocated its tracks. It now crosses the channel on a trestle about 600 m. north of Third Street bridge. This new location is shown in dashed lines on the sheet.

It is suggested that the office correspond with the Los Angeles county engineer, who is cooperating with the Army Engineers in building this flood control channel, at some future date and obtain final data regarding it.

Two piers, not previously shown on the chart, are given on the sheet; an amusement pier, just west of the Long Beach Pier and the 39th Street pier at the east end of Long Beach. No boats land at the Amusement pier. There might possibly be some small boats that land at the 39th Street pier, but it is not thought so. A ferry boat that runs between San Pedro and Long Beach docks at the Long Beach pier, just north of the house on the outer end of the pier.

Belmont Shore Place and Alamitos Bay, at the southeast extremity of Long Beach, are undergoing changes. Alamitos Bay is being dredged; the dredgings are being used to fill in the marsh land at Belmont Shore Place, which is to be built up as a residence section. It is planned to make a yacht harbor out of Alamitos Bay. The bay, including the entrance, is to be entirely dredged. A breakwater is to be built out from the entrance. The trestle across the entrance is to be replaced by either a bascule or draw bridge. Plans call for the relocating of the Pacific Electric Railway line to Seal Beach, - the new line to be on the north side of Alamitos Bay.

Four prints accompany the topographic sheet. Print #1 shows the buildings of the Long Beach Shipbuilding Co., located at West Long Beach. Print #2a shows the streets now being constructed at Belmont Shore Place. Print #2b is a general plan of that locality, giving the whole layout of streets which are to be built at some future date. The remaining print is one of Naples, showing the street layout. Streets on this print have been transferred to the topographic sheet and are shown in blue ink.

The streets in Long Beach, shown in blue ink on the topographic sheet were transferred from the City Engineer's maps and checked up in the field. Topography shown in black ink only, was surveyed. That shown in blue ink was transferred from reliable sources.



R. F. A. Studds,
Jr. H & G Eng'r.,
Topographer.



F. G. Engle,
H & G Eng'r.,
Chief of Party.

LIST OF PLANETABLE POSITIONS.

To accompany Topographic Sheet Number 2.

Long Beach and vicinity, Los Angeles County,

California.

Object	Hydrographic Name	Latitude ° ' "	D.M.'s Meters	Longitude ° ' "	D.P.'s Meters	Remarks
Tall Flag Staff	Lum	33. 46	1557	118 14	974	Consolidated Lumber Yd. Also shown on Topog. sheet #1 (ditto)
Yellow Water Tank	Yol	33 46	1434	118 14	947	
Cupola, Salt Wks.	Star	33 46	926	118 13	1217	Flagstaff on cupola. Also shown on Sheet #1
White Water Tank	Mal	33 46	1575	118 13	264	Gas Works. Also shown on Sheet #1.
Concrete Chimney	Crot	33 45	1570	118 13	220	West Long Beach. Also shown on Sheet #1.
Black Stack	-	33 47	604	118 12	1044	Golden State Woolen Mills.
"I" on Curtis Sign	-	33 46	981	118 12	846	Curtis Canning Co.
Cupola, Daisy Street School	Ole	33 46	890	118 11	1481	Black and white Cupola.
Diving Tower	Div	33 45	1574	118 11	1139	Amusement Pier.
Flagstaff, Long Beach Pier.	Pin	33 45	1369	118 11	800	Outer extremity.
Flagstaff, 39th Street Pier.	-	33 45	876	118 08	1362	Middle of pier.
South Cupola, Hotel - Napoli.	-	33 45	612	118 07	644	South one of two, Naples.
--	Cor	33 45	1767	118 10	120	Temporary Hydrographic Signals, shown in pencil on the Topograph- ic Sheet.
--	End	33 45	1746	118 11	576	

Los Angeles Harbor and Vicinity, California.

LANDMARKS FOR CHART.

(Topographic Sheet #2).

Description of Object	Latitude ° ' "	Dist mtrs.	Longitude ° ' "	DP mtrs.
Black steel water tank, with red band, Long Beach Shipbuilding Co.	33 46	182.1	118 12	1260.6
Virginia Hotel,  Virginia Hotel, W. flag, - Long Beach	33 46	30.8	118 11	1254.7
White Tank, Los Corritos, - Long Beach Very prominent	33 48	22.8	118 09	1192.2
Clock Tower, - Long Beach. This appears as square cupola on building.	33 46	193.8	118 11	802.4
Pavilion, - Alamitos Bay,  Pavilion Flagstaff	33 44	1619.1	118 07	571.2
Tower on end of Seal Beach pier. Not on Topographic Sheet #2	33 44	461.53	118 06	668.3
Sugar Refinery Stack, white brick, inland from Huntington Beach. Not on Topog. Sheet #2. Rather prominent.	33 41	529.9	117 59	1486.7

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
WASHINGTON

SECTION OF FIELD RECORDS

REPORT ON TOPOGRAPHIC SHEETS Nos. 3819 & 3820.

Surveyed in 1920.

Chief of Party: F. G. Engle.

Surveyed by R. P. Eymann and
R.F.A. Studds.

Inked by R. P. Eymann and R.F.A. Studds.

1. The plan and character of the survey fulfills the requirements of the General Instructions.
2. The extent of the survey satisfies the specific instructions but the numerous details obtained from city maps and other sources were not handled as directed in paragraph 2 of the instructions.

Topographic details from maps and blueprints should not have been transferred to the plane table by the field party. The facilities and collateral information in the Washington office enable this to be done ^{there} to better advantage than in the field.

None of the maps and blueprints were marked up to show existing and projected improvements.

In addition to the shoreline prominent points that are common to the plane table sheet and the blueprint should be indicated on the latter. This was done on only one or two prints.

3. The field drafting was completed to the extent prescribed in General Instructions.
4. No further surveying is required within the limits of the sheets.
5. Both the surveying and field drafting are excellent. The descriptive reports and accompanying information are illuminating.
6. Reviewed by E. P. Ellis, August, 1921.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

The finished Topographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

Register No. **3819** #2.

State **California**

General locality . . . **San Pedro Bay (Los Angeles Harbor)** .

Locality . . . **Long Beach and vicinity**

Chief of party . . . **F. G. Engle**

Surveyed by **R. F. A. Studds**

Date of survey . . . **September, 1920**

Scale **1-10,000**

Heights in feet above **--**

Contour interval **--** . . . feet.

Inked by **R. F. A. S.** . . Lettered by **R. F. A. S.**

Records accompanying sheet (check those forwarded): Photographs,

Descriptive report, Horizontal angle books, Field computations,

Data from other sources affecting sheet **Four Prints**

Remarks: **Topography shown in blue ink was not surveyed, but transferred from reliable sources.**